

CLAIMS

1. In a recording apparatus that records plurality of main data divided into each unit of data, reproduced by a reproducing apparatus, and sent through a network,

a recording apparatus comprising:

recording means for recording a main data sent from said reproducing apparatus into a recording medium;

communication means for communicating with said reproducing apparatus through said network;

detection means for detecting a communication error of said main data received by said communication means;

notification means that notifies occurrence of a communication error to said reproducing apparatus based on a detection result of communication error provided by said detection means; and

control means for controlling said recording means so that the recording is performed again from the start position where recording of the main data started when a communication error is detected by said detection means, and controlling said communication means in order to send reproducing start data to said reproducing means through said network so that the reproducing is started from the start position of the main data in which said communication error was detected.

2. The recording apparatus according to claim 1, wherein

said control means further controls said recording means so that said recording means starts recording said main data after receiving, from said reproducing apparatus, said main data of which

reproducing was started from the starting position of the main data in which said communication error was detected.

3. The recording apparatus according to claim 1, further comprising

status detecting means that detects an operating status of said reproducing apparatus, wherein

said control means controls said communication means so that said reproducing start data is transmitted after detecting that the operating status of said reproducing apparatus is in a predetermined status by said status detection means after detecting said communication error.

4. In a reproducing apparatus that transmits main data reproduced from recording media by each unit of said main data to the recording apparatus connected through a network,

a reproducing apparatus comprising:

reproducing means for reproducing predetermined main data from said recording media;

communication means for communicating with said recording apparatus through a network;

detection means for detecting error signals detected in said recording apparatus and received by said communicating means; and

control means for controlling said reproducing means so that, when said detection means detects error signals, reproducing starts from reproducing start position of the main data in which an error detected by said recording apparatus.

5. The reproducing apparatus according to claim 4, wherein

said control means suspends reproducing of main data from said

reproducing means until an instruction to restart reproducing is received from said recording apparatus through said network.

6. The reproducing apparatus according to claim 4, wherein

said control means controls said communication means so that an operating status of said reproducing apparatus is sent to said recording apparatus through said network when a request for transmission of the operating status of said reproducing apparatus is received from said recording apparatus.

7. In a recording/reproducing system that performs dubbing data by employing a reproducing unit that reproduces data, recording unit that records the reproduced data, and interface unit that transfers data in a predetermined format between said reproducing unit and said recording unit,

a recording/reproducing system comprising:

transfer error detection means for detecting a transfer error of data in said interface unit;

transfer error notification means for notifying said transfer error from said recording unit to said reproducing unit;

reproducing retry preparation means for causing said reproducing unit to stop based on said error information after returning to the start of track of data on which said transfer error occurred;

recording retry preparation means for causing said recording unit to stop based on said error information after returning to the start of track of data on which said transfer error occurred; and

retry means for sending a command to reproduce from said recording unit to said reproducing unit after completing said reproducing retry preparation in said reproducing unit and said

recording retry preparation in said recording unit, wherein
said retry of dubbing is performed.

8. The recording/reproducing system according to claim 7,
wherein

conditions at the time of retry performed by said retry means
are sent from said reproducing unit to said recording unit before
completing said reproducing retry preparation in said reproducing
unit and said recording retry preparation in said recording unit.

9. The recording/reproducing system according to claim 7,
wherein

said transfer error is due to detection of discontinuity of
transferred data.

10. The recording/reproducing system according to claim 7,
wherein

said transfer error is due to not receiving audio signals in
predetermined format.

11. The recording/reproducing system according to claim 7,
wherein

said transfer error is due to reception of empty packets
continued for a predetermined number of times when receiving audio
signals in predetermined format.

12. In a recording/reproducing system that performs dubbing by
employing a reproducing unit that reproduces data, recording unit
that records the reproduced data, and interface unit that transfers
data in a predetermined format between said reproducing unit and
said recording unit, a recording/reproducing system comprising:

transfer error detection means for detecting transfer error of

data in said interface unit; and

suspension means for stopping said dubbing when said transfer error is detected during said dubbing.

13. The recording/reproducing system according to claim 12, wherein said transfer error is due to insufficiency of isochronous resource.

14. The recording/reproducing system according to claim 12, wherein

said transfer error is due to occurrence of bus reset.

15. The recording/reproducing system according to claim 12, wherein

said transfer error is due to the fact that the copy right information of said transferred data is of a data that prohibits said dubbing.

16. In a recording method for recording plurality of main data reproduced by a reproducing apparatus after divided into each unit of the data into recording media and sent through a network,

a recording method comprising:

a receiving step of receiving main data sent from said reproducing apparatus;

a detection step of detecting an error of said received main data ;

a recording step of recording said main data into said recording media when no error is detected on said received data;

a notification step of notifying that an error is detected to said reproducing apparatus when an error is detected in said received main data; and

a standby step of standing by at the start position of recording of the main data on which said error was detected, for starting reproducing of the main data on which said error was detected from the start position of the reproducing in said reproducing apparatus.

17. The recording method according to claim 16, further comprising

a transmitting step of transmitting an instruction to start reproducing to said reproducing apparatus so that the reproducing is started from the start position where reproducing of the main data on which said error was detected is started, when standing by for starting of the reproducing apparatus.

18. In a reproducing method for transmitting main data reproduced from recording media by dividing the data into each unit to a recording apparatus through a network,
a reproducing method comprising:

a detection step of transmitting main data reproduced from said recording media by dividing said main data into each unit to said recording apparatus, and detecting an error notification signal sent from said recording apparatus; and

a standby step of standing by for a restart of reproducing so that the reproducing is restarted from the position where the reproducing of main data on which an error was detected by said recording apparatus is started, when it is detected that an error notification signal was sent from said recording apparatus.

19. The reproducing method according to claim 18, further comprising

a step of starting reproducing from the start position of main

data that is standing by for said reproducing when a reproducing start command sent from said recording apparatus is received while standing by for a restart of said reproducing.